PCT/US2004/040438

A CLASSII	FICATION OF SUBJECT MATTER C12N9/16 C12N9/50 C12N9/52					
According to	International Patent Classification (IPC) or to both national classificat	tion and IPC				
B. FIELDS	SEARCHED					
	cumentation searched (classification system followed by classification C12N	n symbols)				
	on searched other than minimum documentation to the extent that su		rched			
Electronic da	ata base consulted during the international search (name of data bas	e and, where practical, search terms used)				
EPO-Internal, Sequence Search						
> @VD 6						
	ENTS CONSIDERED TO BE RELEVANT					
Category °	Citation of document, with indication, where appropriate, of the rele	evant passages	Relevant to claim No			
Α	EP 0 359 087 A (THE CLOROX COMPAN 21 March 1990 (1990-03-21) the whole document	1X)				
A	EP 0 268 456 A (THE CLOROX COMPAN 25 May 1988 (1988-05-25) the whole document	<b>1</b> X)				
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		-/-				
X Furth	ner documents are listed in the continuation of box C	X Patent family members are listed in	ı annex			
° Special cat	egories of cited documents	"T" later document published after the inter	national filing date			
conside	nt defining the general state of the art which is not cred to be of particular relevance	or priority date and not in conflict with t cited to understand the principle or the invention	he application but			
'E" earlier document but published on or after the international filing date  "X' document of particular relevance, the claimed invention cannot be considered novel or cannot be considered to						
'L' document which may throw doubts on priority claim(s) or involve an inventive step when the document is taken alone which is cited to establish the publication date of another 'Y' document of particular relevance, the claimed invention						
	"O¹ document referring to an oral disclosure, use, exhibition or other means  "O¹ document referring to an oral disclosure, use, exhibition or other means  document is combined with one or more other such docur- ments, such combination being obvious to a person skilled					
	nt published prior to the international filing date but an the priority date claimed	in the art "&' document member of the same patent f	arnily			
Date of the	actual completion of the international search	Date of mailing of the international search	h report			
3	June 2005	29. 11. 2005				
Name and n	nailing address of the ISA	Authorized officer				
	European Patent Office, P B 5818 Patentlaan 2 NL 2280 HV RiJSWiJk					
	Tel (+31-70) 340-2040 Tx 31 651 epo nl Fax (+31 70) 340-3016	Smalt, R				

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C(Co-d-	Han) DOCIDIENTS CONSTREDED TO BE DELEVANT	PC1/US26	
C(Continua Category °	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No
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A	DATABASE UniProt [Online]  1 December 2001 (2001-12-01),  "Hypothetical protein."  XP00233 ②34  retrieved from EBI accession no.  UNI PROT: Q92XZ6  Database accession no. Q92XZ6  the whole document		
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	the whole document		

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
20 Continue of the continu
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons
Claims Nos because they relate to subject matter not required to be searched by this Authority namely
2 I Claims Nos
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically
Claims Nos because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6 4(a)
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows
see addi tional sheet
see addi tional sheet
I L As all required additional search face were timely paid by the applicant, this International Search Percent covers all
1 I As all required additional search fees were timely paid by the applicant, this International Search Report covers all  —-1 searchable claims
2 I As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment
of any additional fee
3 I l As only some of the required additional search fees were timely paid by the applicant, this International Search Report
3   1 As only some of the required additional search fees were timely paid by the applicant, this International Search Report
4 71 NO required additional search fees were timely paid by the applicant Consequently, this International Search Report is restricted to the invention first mentioned in the claims it is covered by claims Nos
4,119, 20 (completely); 1-3,5-7,68,70-84,86,87,118,121-125,127-135,153-158
163-166 (partial ly)
Remark on Protest  1 The additional search fees were accompanied by the applicant's protest
1 No protest accompanied the payment of additional search fees

This Internati onal Searching Authority found multiple (groups of) inventions in this internati onal application, as follows:

Invention 1: claim 4, 119 and 120 completely, and claim 1-3, 5-7, 68, 70-84, 86,87, 118, 121-125, 127-135, 153-158, and 163-166 partially

A perhydrolase protein comprising the sequence represented in SEQ. ID. 2, nuclei c acids encoding it, and composition comprising it.

Inventions 2-188: claims 13,5-87,104-118, and 121-166, all parti ally and as far as applicable

Subject-matter essential ly as defined for invention 1, but 1 imi ted to mutants of SEQ. ID. 2 at respectively posi t i ons 1-8,10-80,82-87,89,90,92,123-130,132,133,135,136,138,140-143,145-151,153,154,157,159,161,162,164-168,170-172,175,176,178,182-186,188,190-194,196-199,201-203,205,206 and 208-216.

Invention 189: claims 88-103 completely

Method for identi fyi ng a perhydrolase, protei ns identi fied thereby, and nucleic acids encoding them.

## PCT/US2004/040438

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